

SYSTEM AND METHOD FOR SYNCHRONIZING A BASE STATION
IN A DISTRIBUTED RADIO SYSTEM

ABSTRACT OF THE DISCLOSURE

There is disclosed a system and method for synchronizing a
5 base station within a distributed radio system. A communication
network is provided utilizing gigabit ethernet protocols and media.
A global positioning system (GPS) is installed onboard one of a
plurality of base stations. The single GPS, without the necessity
for a holdover oscillator, is used to synchronize a plurality of
the base stations within the network by transmitting a clock signal
via the gigabit ethernet media to each base station. The gigabit
Ethernet signal is tapped by a clock recovery circuit, present on
each base station and the recovered signal serves as a master clock
signal for the base station as well as a reference clock for the
transmit and receive section.